

## Abstract

The invention presents a soundboard for acoustic musical instruments. Its use is possible for all acoustic musical instruments in which the sound radiation takes place by means of soundboards or resonant bodies composed of soundboards (or resonant back plates), preferably for bowed stringed instruments. The soundboard according to the invention is constructed as a composite fibre sandwich plate consisting of core plate and fibre coating. The fibre coating is characterised in that it is multidirectional and single-layer, or multidirectional and applied only to part-zones of the core plate. Because of its more favourable ratio of stiffness to mass relative to the conventional soundboards made from solid wood or composite, the soundboard according to the invention produces an increase in the sound radiation of the musical instrument.